

ABSTRACT

A non-separable symbol constellation may comprise constituent constellations having separable I and Q. Such a non-separable constellation may be decoded with the efficiency of a separable constellation by decoding for each of the constituent constellations individually. In a transmitter, transmit data may be mapped to symbols by selecting a constituent constellation and I and Q values for a symbol to be transmitted. In a receiver, decoders may decode for each constituent individually.